

AMENDMENTS

CLAIMS:

1. (currently amended): A method in a data processing system for displaying versions of source code, each version reflecting an instance in an edit history, the method comprising the steps of:

determining a language of the source code;

storing indications of the edits to the source code;

converting the source code with the indications of the edits from the language into

a language-neutral representation; and

~~using the language-neutral representation to display the converted source code~~

~~with the indications of all the source code edits; and~~

using the language-neutral representation to simultaneously display a text

representation and a corresponding graphical representation of the

converted source code with the indications of all the edits, showing visual

differences of the source code through time,

wherein the graphical representation of the converted source code displays

a diagrammatic representation of the source code to demonstrate

relationships between elements of the source code, and

wherein the graphical representation of the source code is not an alpha-

numeric display and is not merely a text representation on a user

interface.

2. (previously amended): The method of claim 1, wherein the source code and the corresponding graphical representation of the converted source code are displayed sequentially.

3. (original): The method of claim 1, wherein a rate at which the source code with the indications of the edits is displayed is adjustable.

4. (original): The method of claim 1, wherein the source code with the indications of the edits is displayed in reverse order.

5. (currently amended): The method of claim 1, wherein the graphical representation is one of the from a group consisting of a use case diagram, a sequence diagram, a collaboration diagram, a state transition diagram, an activity diagram, a package diagram, a component diagram and a deployment diagram.

6. (cancelled)

7. (cancelled)

8. (cancelled)

9. (cancelled)

10. (cancelled)

11. (cancelled)

12. (cancelled)

13. (currently amended): A method in a data processing system for displaying versions of source code, the method comprising the steps of:

storing an edit to the source code; and

~~displaying the source code and a graphical representation of the source code for showing differences in the source code over time using graphical~~

~~representations that are not merely alpha-numeric or text-based display;~~
and

displaying simultaneously a text representation ~~the source code with the edit~~ and a
corresponding graphical representation of the source code with an
indications of the edit,
wherein the graphical representation of the source code displays a
diagrammatic representation of the source code demonstrating
relationships between elements of the source code, and
wherein the graphical representation of the source code is not an alpha-
numeric display and is not merely a text representation on a user
interface.

14. (presently amended): The method of claim 13, wherein the step of
displaying the source code comprises the steps of:
determining a language of the source code;
converting the source code from the language into a language-neutral
representation; and
using the language-neutral representation to simultaneously display a text
representation and a graphical representation of the converted source code
with an indication of the source code edit.
15. (cancelled)
16. (currently amended): The method of claim 13, wherein the source code is
displayed after the converted source code with an indication of the edit is displayed.

17. (currently amended): A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having versions of source code, each version reflecting an instance in an edit history, the method comprising the steps of:
- determining a language of the source code;
 - storing indications of the edits to the source code;
 - converting the source code with the indications of the edits from the language into a language-neutral representation ~~that is not merely alpha numeric nor a text-based display; and~~
 - ~~using the language-neutral representation to display the converted source code with the indications of the edits; and~~
 - using the language-neutral representation to simultaneously display a text representation and a corresponding graphical representation of the source code with the indications of all the edits;
 - wherein the graphical representation of the source code displays a diagrammatic representation of the source code demonstrating relationships between elements of the source code, and wherein the graphical representation of the source code is not an alpha-numeric display and is not merely a text representation on a user interface.
18. (original): The computer-readable medium of claim 17, wherein the source code and the corresponding graphical representation of the source code are displayed sequentially.

19. (original): The computer-readable medium of claim 17, wherein a rate at which the source code with the indications of the edits is displayed is adjustable.

20. (original): The computer-readable medium of claim 17, wherein the source code with the indications of the edits is displayed in reverse order.

21. (currently amended): The computer-readable medium of claim 17, wherein the graphical representation is one of the from a group consisting of a class diagram, a use case diagram, a sequence diagram, a collaboration diagram, a state transition diagram, an activity diagram, a package diagram, a component diagram and a deployment diagram.

22. (currently amended): A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having versions of source code, each version reflecting an instance in an edit history, the method comprising the steps of:

storing indications of the edits to the source code; and

displaying simultaneously a text representation and a graphical representation of the source code with indications of all the edits, the versions of the source code with the indications of the edits in a graphical representation, which show differences in the source code over time using graphical representations that are not merely alpha-numeric or text based display, wherein the graphical representation of the source code displays a diagrammatic representation of the source code to demonstrate relationships between elements of the source code, and wherein the graphical representation of the source code is not an alpha-

numeric display and is not merely a text representation on a user interface.

23. (original): The computer-readable medium of claim 22, wherein the versions of the source code are displayed sequentially.

24. (original): The computer-readable medium of claim 22, wherein a rate at which the source code with the indications of the edits is displayed is adjustable.

25. (original): The computer-readable medium of claim 22, wherein the source code with the indications of the edits is displayed in reverse order.

26. (cancelled)

27. (cancelled)

28. (currently amended): The computer-readable medium of claim ~~26~~ 22, wherein the graphical representation is one ~~of the~~ from a group consisting of a class diagram, a use case diagram, a sequence diagram, a collaboration diagram, a state transition diagram, an activity diagram, a package diagram, a component diagram and a deployment diagram.

29. (currently amended): A computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having source code, the method comprising the steps of:

storing an edit to the source code;

displaying simultaneously a text representation and a graphical representation of the source code with indications of all the edits,

~~the source code and a graphical representation of the source code showing~~
~~differences in the source code over time using graphical representations~~
~~that are not merely alpha-numeric or text based display; and~~
~~displaying the source code with the edit and a graphical representation of the~~
~~source code with the edit;~~
wherein the graphical representation of the source code displays
a diagrammatic representation of the source code to demonstrate
relationships between elements of the source code, and
wherein the graphical representation of the source code is not an alpha-
numeric display and is not merely a text representation on a user
interface.

30. (currently amended): The computer-readable medium of claim 29,
wherein the step of displaying the source code comprises the steps of:
determining a language of the source code;
converting the source code from the language into a language-neutral
representation; and
using the language-neutral representation to simultaneously display the a text
representation and a corresponding graphical representation of the
converted source code with an indication of the edit.
31. (currently amended): The computer-readable medium of claim 29,
wherein the step of displaying the source code with the edit comprises the steps of:
converting the source code with an indication of the edit from the language into
a language-neutral representation; and

using the language-neutral representation of the converted source code with
an indication of the edit to display the graphical representation of the
source code with the edit.

32. (original): The computer-readable medium of claim 29, wherein the
source code is displayed after the source code with the edit is displayed.

33. (currently amended): A data processing system comprising:

a secondary storage including source code;

a memory device including:

a program that stores indications of edits to the source code into the
memory device, and that simultaneously displays a text
~~representation the source code with the indications of the edits~~ and
a corresponding graphical representation of the source code with
indications of all the edits, showing differences in the source code
~~over time using graphical representations that are not merely~~
~~alpha-numeric or text-based display,~~

wherein the graphical representation of the source code displays
a diagrammatic representation of the source code to demonstrate
relationships between elements of the source code, and

wherein the graphical representation of the source code is not an alpha-
numeric display and is not merely a text representation on a user
interface of the source code with the indications of the edits; and
a processor for running the program.

34. (original): The data processing system of claim 33, wherein the source code with the indications of the edits are displayed sequentially.

35. (original): The data processing system of claim 33, wherein a rate at which the source code with the indications of the edits is displayed is adjustable.

36. (original): The data processing system of claim 33, wherein the source code with the indications of the edits is displayed in reverse order.

37. (currently amended): The data processing system of claim 33, wherein the program further:

determines the language of the source code,

converts the source code with the indications of the edits from the language into a

language-neutral representation, and

~~uses the language-neutral representation to display the source code with the~~

~~indications of the edits in the language, and~~

uses the language-neutral representation to simultaneously display the a text

representation and a corresponding graphical representation of the source

code with the indications of all the edits.

38. (previously amended): The data processing system of claim 37, wherein the memory device further comprises a transient meta model, wherein said transient meta model stores the language neutral representation of the source code.

39. (currently amended): The data processing system of claim 33, wherein the graphical representation is one of the from a group consisting of a class diagram, a use case diagram, a sequence diagram, a collaboration diagram, a state transition diagram, an activity diagram, a package diagram, a component diagram and a deployment diagram.

~~a processor for running the program.~~

40. (currently amended): A system for displaying versions of source code, each version reflecting an instance in an edit history, the system comprising:

means for storing indications of the edits to the source code; and

means for simultaneously displaying a text representation and a graphical

representation ~~the versions of the source code with the indications of all~~

~~the edits, in a graphical representation showing differences in the source code over time using~~

wherein the graphical representation of the source code displays

a diagrammatic representation of the source code to demonstrate

relationships between elements of the source code, and

wherein the graphical representation of the source code is not an alpha-

numeric display and is ~~graphical representations that are not~~

~~merely alpha-numeric or text-based display, wherein the graphical~~

~~representation of the source code is not merely a text~~

~~representation on a user interface.~~